



FORM PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DKT NO. 4280-016		SERIAL NO. 10/696,485	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				APPLICANT Beavers et al.			
				FILING DATE October 29, 2003		GROUP	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CL.	SUBCL.	FILING DATE IF APPROP.
TAT	A	2,819,236	01/58	Dickmann	260	29.1	
	B	3,020,260	02/62	Nelson	260	46.5	
	C	3,522,576	08/70	Cairns	339	91	
	D	3,652,475	03/72	Wada et al.	260	29.1	
	E	4,008,197	02/77	Brauer et al.	260	31.6	
	F	4,102,716	07/78	Groves et al.	156	48	
	G	4,186,986	02/80	Shoemaker	339	114	
	H	4,284,312	08/81	Patchett et al.	339	60	
	I	4,299,431	11/81	Wilson et al.	339	60	
	J	4,382,057	05/83	Tolentino	264	328.2	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	COUNTRY	CL.	SUBCL.	TRANSLATION
							YES NO
OTHER DOCUMENTS (Incl. Author, Title, Date, Pertinent pages, etc.)							
EXAMINER <i>Wolcott</i>				DATE CONSIDERED <i>3/2/05</i>			
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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	K	4,425,017	01/84	Chan	339	96		
	L	4,284,312	08/81	Patchett et al.	339	60		
	M	4,299,431	11/81	Wilson et al.	339	60		
	N	4,444,940	04/84	Polmanteer	524	500		
	O	4,488,771	12/84	Koford	339	278		
	P	4,504,699	03/85	Dones et al.	174	84		
	Q	4,588,238	05/86	Michelson et al.	339	91		
	R	4,595,635	06/86	Dubrow et al.	428	447		
	S	4,596,743	06/86	Brauer et al.	428	380		
	T	4,600,261	07/86	Debbaut	339	116		
	U	4,634,207	01/87	Debbaut	339	116		
	V	4,642,924	02/87	Sudderth et a.	38	102.2		
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NO.	DATE	COUNTRY	CL.	SUBCL.	TRANSLATION	
							YES	NO
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EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CL.	SUBCL.	FILING DATE IF APPROP.			
TdT	W	4,643,924	02/87	Uken et al.	428	35			
	X	4,662,692	05/87	Uken et al.	339	96			
	Y	4,680,233	07/87	Camin et al.	428	424.6			
	Z	4,716,183	12/87	Gamarra et al.	522	80			
	AA	4,717,355	01/88	Mattis	439	452			
	BB	4,718,678	01/88	Vansant	277	1			
	CC	4,721,832	01/88	Toy	174	87			
	DD	4,734,061	03/88	Randall, Jr. et al.	439	709			
	EE	4,741,709	05/88	Jervis	439	521			
	FF	4,748,651	05/88	Collins et al.	379	22			
	GG	4,777,063	10/88	Dubrow et al.	427	44			
	HH	4,800,588	01/89	Poster, Jr.	379	412			
FOREIGN PATENT DOCUMENTS									
	DOCUMENT NO.	DATE	COUNTRY	CL.	SUBCL.	TRANSLATION			
						YES	NO		
OTHER DOCUMENTS (Incl. Author, Title, Date, Pertinent pages, etc.)									
EXAMINER <i>Modan</i>				DATE CONSIDERED <i>3/2/05</i>					
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U.S. PATENT DOCUMENTS									
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CL.	SUBCL.	FILING DATE IF APPROP.			
<i>TdT</i> <div style="border-left: 1px solid black; height: 100px; margin: 0 auto; width: 20px;"></div>	II	4,824,390	05/89	Crane et al.	439	271			
	JJ	4,846,721	07/89	Debruycker et al.	439	411			
	KK	4,849,580	07/89	Reuter	174	92			
	LL	4,864,725	09/89	Debbaut	29	871			
	MM	4,865,905	09/89	Uken	428	220			
	NN	4,917,617	04/90	Smith	439	135			
	OO	4,924,489	05/90	Lawrence et al.	379	6			
	PP	4,927,386	05/90	Neuroth	439	589			
	QQ	4,942,270	07/90	Gamarra	174	93			
	RR	4,945,560	07/90	Collins et al.	379	399			
	SS	4,971,573	11/90	Pinyan	439	412			
TT	4,979,209	12/90	Collins et al.	379	399				
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<i>TdT</i> <div style="border-left: 1px solid black; height: 100px; margin: 0 auto; width: 20px;"></div>	UU	4,998,894	Gronvall	439	521				
	VV	5,044,981	Suffi et al.	439	533				
	WW	5,079,300	Dubrow et al.	525	106				
	XX	5,085,597	Story et al.	439	521				
	YY	5,102,347	Cote et al.	439	412				
	ZZ	5,104,930	Rinde et al.	524	871				
	AAA	5,111,497	Bliven et al.	379	27				
	BBB	5,130,818	Tadokoro	358	407				
	CCC	5,139,440	Volk et al.	439	413				
	DDD	5,140,746	Debbaut	29	855				
	EEE	5,153,910	Mickelson et al.	379	399				
	FFF	5,153,988	Mattis et al.	29	863				
FOREIGN PATENT DOCUMENTS									
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CL.	SUBCL.	FILING DATE IF APPROP.
<div style="display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> TAT HHH III JJJ KKK LLL MMM NNN OOO PPP QQQ RRR </div> <div style="margin-left: 10px;"> ✓ </div> </div>	GGG	5,195,125	03/93	Bliven et al.	379	29	
	HHH	5,201,672	04/93	Story et al.	439	521	
	III	5,202,919	04/93	Kiko	379	399	
	JJJ	5,228,018	07/93	Rokutan	369	44.29	
	KKK	5,229,058	07/93	Uken et al.	264	261	
	LLL	5,235,638	08/93	Dondero	379	399	
	MMM	5,246,383	09/93	Shimirak et al.	439	521	
	NNN	5,281,763	01/94	Hey et al.	174	84	
	OOO	5,313,019	05/94	Brusselmans et al.	174	93	
	PPP	5,333,193	07/94	Cote et al.	379	399	
	QQQ	5,357,057	10/94	Debbaut	174	84	
	RRR	5,359,654	10/94	Jensen et al.	379	397	

FOREIGN PATENT DOCUMENTS								
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							YES	NO

OTHER DOCUMENTS (Incl. Author, Title, Date, Pertinent pages, etc.)	

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Beavers et al.FILING DATE
October 29, 2003

GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CL.	SUBCL.	FILING DATE IF APPROP.
TdT	SSS	5,376,019	12/94	Shimirak et al.	439	521	
	TTT	5,404,401	04/95	Bliven et al.	379	442	
	UUU	5,406,702	04/95	Shimirak et al.	29	883	
	VVV	5,415,713	05/95	Vatcher	156	48	
	WWW	5,422,438	06/95	Lamome	174	84	
	XXX	5,427,547	06/95	Shimirak et al.	439	521	
	YYY	5,431,758	07/95	Delalle	156	49	
	ZZZ	5,442,004	08/95	Sutherland et al.	524	140	
	AAAA	5,449,299	09/95	Shimirak et al.	439	417	
	BBBB	5,518,415	05/96	Sano	439	204	
	CCCC	5,541,250	07/96	Hudson et al.	524	505	
	DDDD	5,548,641	08/96	Butler et al.	397	399	

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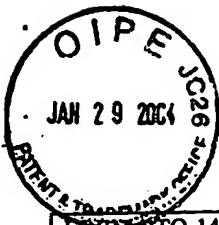
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CL.	SUBCL.	FILING DATE IF APPROP.
T J J J J J J J J J J J	EEEE	5,557,250	09/96	Debbaut et al.	338	21	
	FFFF	5,562,491	10/96	Shimirak et al.	439	521	
	GGGG	5,588,569	12/96	Jensen et al.	439	417	
	HHHH	5,595,504	01/97	Muller	439	521	
	IIII	5,598,455	01/97	Bliven et al.	379	27	
	JJJJ	5,601,460	02/97	Shimirak et al.	439	936	
	KKKK	5,618,882	04/97	Hammond et al.	525	92	
	LLLL	5,797,759	08/98	Mattis et al.	439	201	
	MMMM	5,800,028	09/98	Smith et al.	312	223.1	
	NNNN	5,863,215	01/99	Debbaut et al.	439	412	
	OOOO	5,888,085	03/99	Meyerhoefer et al.	439	188	
	PPPP	5,901,220	05/99	Garver et al.	397	399	

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							YES	NO

OTHER DOCUMENTS (Incl. Author, Title, Date, Pertinent pages, etc.)		

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TAT 	QQQQ	5,934,934	08/99	Ward	439	521		
	RRRR	6,074,240	06/00	Bradshaw et al.	439	412		
	SSSS	6,093,050	07/00	Baum et al.	439	412		
	TTTT	6,093,053	07/00	Horioka et al.	439	444		
	UUUU	6,113,419	09/00	Finley	439	418		
	VVVV	6,135,811	10/00	Daoud	439	519		
	WWW w	6,224,419	05/01	Tucker et al.	439	521		
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NO.	DATE	COUNTRY	CL.	SUBCL.	TRANSLATION	
							YES	NO
TAT 	XXXX	213 874	1986	EPO			X	
	YYYY	319 306	1988	EPO			X	
	ZZZZ	WO 90/15038	1990	PCT (English abstract only)			X	
	AAAAA	WO 92/08257	1991	PCT			X	
OTHER DOCUMENTS (Incl. Author, Title, Date, Pertinent pages, etc.)								
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